PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRRRRRR TI RRRRRRRR TI RRRRRRRR TI RRR RRR RRR RRR RRR RRRRRRR RRRRRRRR RRRRRR		\$	MMM MMM MMM MMMMMM MMMMMM MMMMMM MMMMMM MMMMMM	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
--	--	--	--	--	--

000000

000000 00 00 00 00	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		:::
	\$			

0UT

VO4

Page

: R

0UTPUT V04-000	Print Symb	oiont outpu	troutines	f 11 16-Sep-1984 14-Sep-1984	02:21:40 12:55:12	VAX-11 Bliss-32 V4.0-742 [PRISMB.SRC]OUTPUT.B32;1	Page (1)
58 59 60 61	0058 1 1 0059 1 1 0060 1 1 0061 1	3B <b>-</b> 003	GRR3003 Gr Bugfixes, page_set sheet_feed, symbic hangup code, read	regory R. Robert tup_modules, form_s ont initiated pause and write item ser	23-Aug- setup_module task and s vices	-1983 es, stop_stream,	
63 64	0063 1 ! 0064 1 !	3B-002	GRR3002 Gr Rewrite for new de	regory R. Robert	03-Aug	-1983	
62 63 64 65 66 67 68 69 70	0058 1 0059 1 0060 1 0061 1 0062 1 0063 1 0064 1 0065 1 0066 1 0067 1 0068 1	38-001	GRR3001 Gr Created new module	regory R. Robert	23-Jul	-1983	

0UT

0UTPUT V04-000	Print Symbiont	output routin	es	G 11 16-Sep-1984 02:21:40 14-Sep-1984 12:55:12	VAX-11 Bliss-32 V4.0-742 [PRISMB.SRC]OUTPUT.B32;1	Page
72 73 74 75 77 77 78 80 81 82 88 88 88 88 88 90 91 92 93	1021 1 1022 1 EXTERN 1023 1 1024 1 1025 1 1026 1 1027 1 1028 1 EXTERN 1029 1 1030 1 1031 1	Y 'SYS\$LIBRARY:LI E 'LIB\$:SMBDEF'; E 'SRC\$:SMBREQ'; IAL ROUTINE PSM\$REPORT, SMB\$SEND TO JOB PSM\$STORE_ERROR; IAL PSM\$HANGUP_DISP. CONTINE PSM\$OUTPUT START PRINTER STOP PRINTER WRITE_AST;	CTL.			

OUT VO4

; R

```
H 11
16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                   Print Symbiont -- output routines PSM$OUTPUT
OUTPUT
V04-000
                                                                                                              VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]OUTPUT.B32;1
                                                                                                                                                           Page
                              *SBTTL 'PSM$OUTPUT'
                    1041
1042
1043
10445
1046
1047
1048
1055
1055
1057
                                Functional Description:
                                                  ?desc
                                Formal Parameters:
   100
101
102
103
104
105
                                                  ?desc
                                Implicit Inputs:
                                                  none
                                Implicit Outputs:
                                                  none
   106
                                Returned Value:
   108
                                                  none
   110
                                Side Effects:
   111
                                                  none
   112
                    1058
                              GLOBAL ROUTINE PSMSOUTPUT
                                                              REF $LONGWORD.
                                        SMB CONTEXT
                                                            *
                    1060
   115
                                                            : REF VECTOR
                    1061
1062
1063
                                        FUNCTION
                                                            : REF $LONGWORD,
   116
                                        FUNC_DESC
FUNC_ARG
   117
                                                            : REF VECTOR.
   118
                                                            : REF $LONGWORD
                    1064
   119
                              BEGIN
   120
121
122
123
124
126
127
128
133
133
133
133
133
133
                    1066
                              SELECTONEU .FUNCTION[] OF
                    1068
                                   SET
                    1069
                    1070
                                   [PSMSK_WRITE, PSMSK_WRITE_NOFORMAT]:
BEGIN
                    1071
                    1072
                                        LOCAL IO_FUNC : INITIAL (IOS_WRITELBLK);
                                       LOCAL SIZE, ADDRESS:
                    1074
                    1075
                                        BIND IOB = .SMB_CONTEXT[] : $BBLOCK;
                    1076
                                        BIND SCB = .10B[10B_A_CONTEXT] : $BBLOCK;
                    1077
                    1078
                                          If device was hungup then mark it unavailable and request stop stream
                    1079
                    1080
                                        IF TESTBITSC (SCB[PSM$V_HANGUP])
                    1081
                                        THEN
                    1082
1083
   138
                                             SCB[PSM$L_DEVICE_STATUS] = .SCB[PSM$L_DEVICE_STATUS] OR
                                                  (SMBMSG$M_UNAVAILABLE OR SMBMSG$M_STOP_STREAM);
                    1084
                    1085
   140
                                             RETURN SS$_HANGUP;
                    1086
1087
   141
                                             END:
   142
                                        IF .FUNCTION[] EQL PSMSK_WRITE_NOFORMAT
                    1090
1091
1092
1093
    145
                                                .SCB[PSM$L_DEVICE_CLASS] EQL DC$_TERM
   146
                                                  IO_FUNC = 10$_WRITELBLK OR IO$M_NOFORMAT
   148
                                                  IO_FUNC = IO$_WRITEPBLK;
   150
   151
                                        STRSANALYZE_SDESC_R1 (.FUNC_DESC; SIZE, ADDRESS);
```

OUT VO4

: R

```
OUTPUT
V04-000
                                                                                                                              16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                               Print Symbiont -- output routines PSM$OUTPUT
                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]OUTPUT.832:1
                                                                                                                                                                                                                                                               (3)
                                                                                                                                                                                                                                                     Page
                                                             RETURN IF_ERROR_ ($QIO (
FUNC = .IO FUNC,
CHAN = .SCB[PSM$L CHANNEL],
IOSB = IOB[IOB_Q_TOSB],
ASTADR = WRITE_AST,
     152
153
154
155
156
157
158
159
                               1098
                               1100
                               1101
1102
1103
1104
1105
                                                                                              = .ADDRESS.
      160
                                                                                              = .SIZE));
                               1106
1107
      161
                                                               END:
     162
163
164
166
166
167
168
170
177
177
178
178
181
183
184
185
186
                               1108
1109
                                                       [PSMSK_START_TASK]:
BEGIN
                                                              BIND SCB = .SMB CONTEXT[] : $BBLOCK;
LOCAL BUFFER : $BBLOCK [8];
LOCAL DEVBUFSIZ : VOLATILE;
LOCAL ITEM_LIST : $ITMLST_DECL (ITEMS=2);
                                1110
                               1112
                               1114
                                                              $ITMLST_INIT (ITMLST=ITEM_LIST,
(BUFADR=BUFFER +4, ITMCOD=DVI$_DEVDEPEND OR DVI$C_SECONDARY),
(BUFADR=DEVBUFSIZ, ITMCOD=DVI$_DEVBUFSIZ OR DVI$C_SECONDARY));
                               1115
                               1116
                               1118
                               1119
                                                               RETURN_IF_ERROR_ ($GETDVIW
                              1120
1121
1122
1123
1124
1126
1127
1128
1129
1131
1133
1133
1133
1136
1137
1138
1139
1140
                                                                       (CHANE.SCB[PSM$L_CHANNEL], ITMLST=ITEM_LIST));
                                                                  Set the page length so the driver can compute number of line feeds for devices lacking mechanical form feed -- preserve the
                                                                   class type and width information.
                                                              BUFFER [0,0,08,0] = .SCB[PSM$L_DEVICE_CLASS];
BUFFER [1,0,08,0] = .SCB[PSM$L_DEVICE_TYPE];
BUFFER [2,0,16,0] = .DEVBUFSIZ;
BUFFER [7,0,08,0] = .SCB[PSM$L_FORM_LENGTH];
                                                               RETURN_IF_ERROR_ ($QIOW
                                                                       (FUNC=10$_SETMODE, CHAN=.SCB[PSM$L_CHANNEL], P1=BUFFER, P2=8));
     188
189
190
191
192
193
                                                               RETURN SS$_NORMAL;
                                                               END:
                                                       [PSM$K_CLOSE]:
      194
195
196
197
                                                               BIND SCB = .SMB_CONTEXT[] : $BBLOCK;
                                                               RETURN STOP_PRINTER (SCB[PSM$L_CHANNEL], SCB[PSM$Q_DEVICE_NAME]);
                               1142
1143
1144
1145
                                                      [PSM$K_OPEN]:
BEGIN
BIND SCB = .SMB_CONTEXT[]: $BBLOCK;
LOCAL DEVDEPEND : $BBLOCK[8];
      198
199
     200
201
202
203
204
205
206
207
208
                               1146
                                                              RETURN IF ERROR (START PRINTER (
.FUNC DESC,
.FUNC ARG,
SCB[PSM$L CHANNEL],
SCB[PSM$L DEVICE CLASS],
SCB[PSM$L DEVICE TYPE],
                               1148
                               1149
                                                                                                                                  - specified device name
                               1150
1151
1152
1153
                                                                                                                                  - resultant device status
                                                                                                                                     channel assigned
                                                                                                                                     device class
                                                                                                                                 - device type
```

0UT

```
0UTPUT
V04-000
                                                                                                 16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                        Print Symbiont -- output routines PSM$OUTPUT
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRCJOUTPUT.832:1
                                                                                                                                                                                                   (3)
                                                      FUNC DESC.
                        1154
1155
1156
1157
    ! - resultant device name
                                                                                                 ! - device dependent bits
                                                            )):
                                                     .SCB[PSM$L_DEVICE_CLASS] EQL DC$_TERM
                                                 THEN
                                                      BEGIN
                          161
                                                       IF NOT .DEVDEPEND[TT$V_MECHTAB]
                         1162
1163
                                                       THEN
                                                            SCB[PSM$V_EXPAND_TABS] = 1;
                        1164
1165
                                                      1166
1167
                        1168
1169
1170
                        1171
1172
1173
1174
1175
1176
1177
                                                                         = 0)):
                                                            P2
                                                      END
                                                ELSE
                                                      IF .SCB[PSM$L_DEVICE_TYPE] EQLU DT$_LP11
AND (NOT .DEVDEPEND[[P$V_TAB])
                                                       THEN
                                                            SCB[PSM$V_EXPAND_TABS] = 1;
                                                RETURN SS$_NORMAL;
                                                END:
                                          [PSMSK_CANCEL]:
BEGIN
                                                BIND SCB = .SMB_CONTEXT[] : $BBLOCK;
                                                RETURN_IF_ERROR_ ($CANCEL (CHAN=.SCB[PSM$L_CHANNEL]));
                        1186
1187
1188
1189
1190
1191
1192
1193
1194
1195
                                          [OTHERWISE]:
                                                RETURN PSM$_FUNNOTSUP;
                                          TES:
                                    PSMS_PENDING
                                    END:
                                                                                                                .TITLE
                                                                                                                            OUTPUT Print Symbiont -- output routines
                                                                                                                            \V04-000\
                                                                                                                           BASSEDIT, LBR$CLOSE
LBR$GET RECORD, LBR$INI CONTROL
LBR$LOOKUP KEY, LBR$OPEN
LBR$RET RMSSTV, LBR$SET_LOCATE
LIB$TRIM_FILESPEC
LIB$GET_VM, LIB$FREE_VM
STR$ANALYZE_SDESC
STR$ANALYZE_SDESC
STR$APPEND, STR$CONCAT
STR$COPY_DX, STR$COPY_R
                                                                                                                .EXTRN
                                                                                                                .EXTRN
                                                                                                                .EXTRN
                                                                                                                .EXTRN
                                                                                                                .EXTRN
                                                                                                                 .EXTRN
                                                                                                                .EXTRN
                                                                                                                .EXTRN
```

.EXTRN

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0UTPUT V04-000	Print Symbiont ou PSM\$OUTPUT	tput routines	K 11 16-Sep-1 14-Sep-1	984 02:21 984 12:55	:40 VAX-11 Bliss-32 V4.0-742 :12 EPRTSMB.SRCJOUTPUT.B32;1	Page 7
				EXTRN	STR\$FREE1_DX, STR\$FREE1_DX_R4 STR\$GET1_DX, STR\$LEFT STR\$PREFIX, STR\$RIGHT PSM\$S HANGUP DISPATCH ENTRY PSM\$_BUFFEROVF, PSM\$_EOF PSM\$_ESCAPE, PSM\$_FLOSH PSM\$_FUNNOTSUP, PSM\$_INVITMCOD PSM\$_INVVMSOSC, PSM\$_MODNOTFND PSM\$_NEWPAGE, PSM\$_NOFILEID PSM\$_OSCTOOLON, PSM\$_PENDING PSM\$_SUSPEND, PSM\$_TOOMANYLEV SMB\$_INVSTMNBR, SMB\$_INVSTRLEV SMB\$_NOMOREITEMS PSM\$REPORT, SMB\$SEND_TO_JOBCTL PSM\$STORE_ERRORS PSM\$HANGUP_DISPATCH_TABLE SYS\$QIO, SYS\$GETDVIQ SYS\$QIOW, SYS\$CANCEL	
				.PSECT	CODE, NOWRT, 2	
	OB 0C 54	56 000000006 51 0C 0A 554 04 52 14 A2	28 C2 00009 BC D0 0000C 53 D1 00010 63 1F 00013 53 D1 00015 5E 1A 00018 20 D0 0001A BC D0 0001D A4 D0 00021 02 E5 00025 8F 88 0002A 8F 3C 0002F 04 00034 53 D1 0003A 07 12 00043 07 12 00043 07 12 00043 08 D0 0004C 25:	MOVE MOVE MOVE MOVE BLSSE MOVE MOVE BOVE MOVE BOVE	PSM\$OUTPUT, Save R2,R3,R4,R5,R6,R7,R8,R9,- R10,R11 SYS\$QIO, R6 W40,SP abfunction, R3 R3, W9 4\$ R3, W10 4\$ W32, IO FUNC aSMB_CONTEXT, R4 20(R4), R2 W2, 12(R2), 1\$ W160, 84(R2) W716, R0  R3, W10 3\$ 416(R2), W66 2\$ W288, IO_FUNC FUNC DESC, R0 STR\$ANALYZE_SDESC_R1 -(SP) -(SP) SIZE ADDRESS R4 WRITE_AST 12(R4) IO_FUNC 395(R2) -(SP) W12, SYS\$QIO	1058 1067 1070 1070 1070 1070 1084 1085 1088 1090 1092 1094 1096

PRT

001PUT V04-000	Print Symbiont outp PSMSOUTPUT	ut i	routines			16	11 -Sep- -Sep-	984 02:21 984 12:55	:40	VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRC]OUTPUT.B32;1	Page (
		10		0122	31	00075	48:	BRW CMPL	13\$ R3. 6\$	#16	: 11
		52 50 80 80	04 000B0004 24	BC 6E 8F	12 00 9E 00 9E	00075 0007B 0007D 00081 0008B 0008F 00091 0009E 0009E 000A0 000A2		BNEQ MOVL MOVAB MOVAB MOVAB	asmb ITEM #720 BUFF	CONTEXT, R2 LIST, \$\$ITMBLKPTR  900, (\$\$ITMBLKPTR)+ ER+4, (\$\$ITMBLKPTR)+ TMBLKPTR)+ 828, (\$\$ITMBLKPTR)+ UFSIZ, (\$\$ITMBLKPTR)+ TMBLKPTR)+ TMBLKPTR)+  1 IST	11
		80 80	00090004 10	80 8F AE 80	DO 940 DO 970	0008F 00091 00098 0009C		MOVL MOVAB CLRQ	(\$\$1 #589 DEVB (\$\$1	TMBLKPTR)+ 828, (\$\$ITMBLKPTR)+ UFSIZ, (\$\$ITMBLKPTR)+ TMBLKPTR)+	
			10	7E 7E AE 7E	7C 7C 9F 04	0009E 000A0 000A2		CLRQ CLRQ PUSHAB CLRL	-(SP -(SP ITEM -(SP	LIST	11
	00000000G	00	0180	7E 08	DD D4	000A7 000AB 000AD		PUSHL CLRL CALLS	396( -(SP #8,	LIST R2) SYS\$GETDVIW	
	20 21 22 27	AE AE AE	01A0 01A4 1C 78	77868A88A877A7C705CCAA7770A72C7059	90 90 80 70	000A7 000AB0 000AB0 0000BB0 0000CF1 0000DBB0 0000CF1 0000DBB0 0000DBF1 0000DBB0 0000DBF1 00010BB0 0000DBF1 00010BB0 000111 00011 0		CLOVAGG AB BELL CHOVAGG AB LASS CENTRE BOOK A CREMENT LG LASS AB BELL CHOVAGG AB LASS CENTRE BOOK A CREMENT LG LASS ACCEMENTAL CHOSSIA ACCEMENTAL	416( 420( DEVB 120( -(SP	SYS\$GETDVIW US, 8\$ R2), BUFFER R2), BUFFER+1 UFSIZ, BUFFER+2 R2), BUFFER+7 )	11 11 11 11
		7E	34	7E 08 AE 7E 23	7C DD 9F 7C 7D	000CF 000D1 000D3 000D6 000D8		CLRQ PUSHL PUSHAB CLRQ MOVQ		ER )-(SP) R2)	
	000000006	00	0180	7E 0C 50	DD D4 FB E9	000DB 000DF 000E1 000E8		CLRL CALLS BLBC RRU	596( -(SP #12, STAT	R2) SYS\$QIOW US, 5\$	
		02			04 D1	000EE	5\$: 6\$:	RET		w2	11
	7E 04 04 04 0000V	BC BC CF	0000004C 0000018C	53 18 8F 8F 02	C1 C1 FB	000F2 000F4 000FD 00106		ADDL3 ADDL3 CALLS	#76, #396	asmb_context, -(sp) , asmb_context, -(sp) stop_printer	11
		04		53	FB 04 01	0010B 0010C	7\$:	CMPL BNFO	R3	#4	11
		52	20 10	575 BEC2222C705C3AE2E	109 D D F F F D 12887	00111 00115 00118 00118 0011F		MOVL PUSHAB PUSHL PUSHAB PUSHAB	DEVDI FUNC 420()	CONTEXT, R2 EPEND DESC R2) R2) R2) DESC, -(SP) START PRINTER US, 15\$ R2), #66 EPEND+1, 9\$ 12(R2)	11
	0000v 00000042	7E CF 7A 8F	01A4 01A0 018C 10	C2 07 50 C2	9F 7D FB E9	00123 00127 00128 00130 00133	8\$:	PUSHAB MOVQ CALLS BLBC CMPL	396() FUNC #7. STATE	R2) DESC, -(SP) START PRINTER US, 16\$ R2), #66	111
	00	04 A2	21	34 AE	12 E8	0013C 0013E 00143		BLBS BLBS	10\$ DEVD	EPEND+1, 9\$	110

PR1 VO4

.

OUTPUT V04-000	Print Symbiont PSM\$OUTPUT	outp	ut routines		1	M 11 6-Sep- 4-Sep-	1984 02:21 1984 12:55	:40 VAX-11 Bliss-32 V4.0-742 :12 CPRTSMB.SRCJOUTPUT.B32;1	Page 9 (3)
	50	0220	C2 00000000G	7E 7E 8F 0040 7E	7C 00148 D4 0014A C5 0014C 9F 00156 7C 00150		CLRQ CLRL MULL3 PUSHAB CLRQ	-(SP) -(SP) #PSM\$S HANGUP_DISPATCH_ENTRY, 556(R2), R0 PSM\$HANGUP_DISPATCH_TABLE[R0] -(SP)	
			7E 018C	7E 8F C2 7E	D4 0015F 9A 00161 DD 00165 D4 00169		CLRL MOVZBL PUSHL CLRL CALLS	-(SP) -(SP) #163, -(SP) 396(R2)	
			66	0C 50	FB 0016B E8 0016E 04 00171		BLBZ	-(SP) #12, SYS\$QIO STATUS, 11\$	
			01 01A4	09	D1 00172 12 00177	10\$:	RET CMPL	420(R2), #1 11\$	1174
	04	00 50	AE A2 50	05 02 01	E0 00179 88 0017E D0 00182	115:	BNEQ BBS BISB2 MOVL	#5, DEVDEPEND, 11\$ #2, 12(R2) #1, R0	1175 1177 1179
			01	53	D1 00186	125:	RET	R3, #1	1182
			50 04 0180	BC	12 00189 00 0018B 00 0018F		BNEQ	asmb context, RO	1184 1185
	00	000000G	00 09	BC CO 01 50	DD 0018F FB 00193 E8 0019A 04 0019D	13\$:	PUSHL CALLS BLBS	#1. SYS\$CANCEL STATUS, 15\$	; 1185
			50 00000000G	8F	DO 0019E	148:	RET MOVL	MPSM\$_FUNNOTSUP, RO	1189
			50 00000000G	8F	04 001A5 D0 001A6 04 001AD	15\$: 16\$:	RET MOVL RET	#PSM\$_PENDING, RO	1195

Routine Base: CODE + 0000

; Routine Size: 430 bytes,

```
N 11
OUTPUT
V04-000
                                                                                                                                       16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                                 Print Symbiont -- output routines START_PRINTER
                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRC]OUTPUT.832;1
                                                  SBITL START PRINTER
                                253456789012532556789012532556789012532567890125325732775678901253256789012575678901
                                                      Functional Description:
                                                                                    ?desc
                                                      Formal Parameters:
                                                                                     ?desc
                                                       Implicit Inputs:
                                                                                    none
                                                      Implicit Outputs:
                                                                                    none
                                                      Returned Value:
                                                                                    none
                                                      Side Effects:
                                                                                    none
                                                 ROUTINE START PRINTER ( *SBTTL 'START PRINTER'
DEVICE NAME,
DEVICE STATUS : REF $LONGWORD,
CHANNEL : REF $WORD,
                                                                                                        REF $LONGWORD,
REF $WORD,
REF $LONGWORD,
                                                                  DEVICE CLASS
DEVICE TYPE
OUT DEVICE NAME
OUT DEVDEPEND
                                                                                                     :
                                                                                                        REF $LONGWORD.
                                                                                                     :
                                                                                                     : REF VECTOR
                                                                   ) =
                                                  BEGIN
                                                                  PARAMETER INDEX (DEVICE NAME, DEVICE STATUS, CHANNEL, DEVICE CLASS, DEVICE TYPE, OUT DEVICE NAME, OUT DEVDEPEND);
                                                  LOCAL
                                                                                                        INITIAL (0),

$ITMLST DECL (ITEMS=4),

$BBLOCK[4] VOLATILE,

INITIAL (0),
                                                                   CHAN
                                                                  ITEM_LIST
DEVDEPEND
      286
287
288
289
290
291
293
295
296
297
298
299
                                                                  DEVSTATUS
DEVCLASS
DEVTYPE
                                                                                                         VOLATILE,
                                                                                                     : VOLATILE,
: INITIAL (0),
: VECTOR [64, BYTE] VOLATILE,
                                                                   DEVNAMSIZ
                                                                   DEVNAMBUF
                                                                   STATUS_1
                                                  MAP
                                                                   DEVSTATUS
                                                                                                     : $BBLOCK;
                                                 $ITMLST_INIT (ITMLST=ITEM_LIST,
    (BUFADR=DEVDEPEND, ITMCOD=DVI$_DEVDEPEND OR DVI$C_SECONDARY),
    (BUFADR=DEVCLASS, ITMCOD=DVI$_DEVCLASS OR DVI$C_SECONDARY),
    (BUFADR=DEVTYPE, ITMCOD=DVI$_DEVTYPE OR DVI$C_SECONDARY),
    (BUFADR=DEVNAMBUF, ITMCOD=DVI$_FULLDEVNAM OR DVI$C_SECONDARY,
    BUFSIZ=XALLOCATION(DEVNAMBUF), RETLEN=DEVNAMSIZ)
      300
      301
      302
303
      304
305
      306
307
                                  1250
1251
1252
                                                   IF PARAMETER_PRESENT_ (CHANNEL)
                                                  THEN
      308
                                                           CHANNEL[] = 0:
```

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(4)

Page

```
OUTPUT
V04-000
                                                                                  16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                    Print Symbiont -- output routines START_PRINTER
                                                                                                                VAX-11 Bliss-32 V4.0-742
[PRTSMB.SRC]OUTPUT.B32;1
   309
310
311
                              IF .STATUS_1 EQL SS$_DEVALRALLOC
THEN
                              STATUS 1 = SS$_DEVALLOC;
IF NOT .STATUS_1
                               THEN
                     260
261
                                   RETURN .STATUS_1;
   RETURN_IF_ERROR_ ($ASSIGN (DEVNAM=.DEVICE_NAME, CHAN=CHAN));
                              IF PARAMETER_PRESENT_ (CHANNEL)
                              THEN
                     266
267
268
269
                                    CHANNEL[] = .CHAN;
                              RETURN_IF_ERROR_ ($GETDVIW (CHAN=.CHAN, ITMLST=ITEM_LIST));
                              IF PARAMETER_PRESENT_ (OUT_DEVDEPEND)
                              THEN
                                   OUT_DEVDEPEND[0] = .DEVDEPEND;
                              SELECTONE . DEVCLASS OF
                                   [DC$ LP]:
IF .D
                                            .DEVDEPEND[LP$V_LOWER]
                                         THEN
                                             DEVSTATUS[SMBMSG$V_LOWERCASE] = 1;
                                   EDC$_TERM]:
    BEGIN
    DEVSTATUS[SMBMSG$V_TERMINAL] = 1;
    IF .DEVDEPEND[TT$V_MODEM]
    338
    339
   340
    341
                                              IF .DEVDEPENDETT$V_REMOTE]
   344
345
                                              THEN
                                                   DEVSTATUS[SMBMSG$V_REMOTE] = 1
    346
347
                                             ELSE
                                         RETURN SS$ HANGUP;
IF .DEVDEPENDETT$V_LOWER]
   348
349
350
351
352
353
354
355
                                         THEN
                                              DEVSTATUS[SMBMSG$V_LOWERCASE] = 1;
                                         END:
                                    [OTHERWISE]:
                                         RETURN_IF_ERROR_ (STOP_PRINTER (CHANNEL[], .DEVICE_NAME));
   356
357
358
359
                                         RETURN 0:
                                                                        !*! Better message needed.
                                         END:
                                    TES;
    360
361
362
363
                              IF NOT PARAMETER_PRESENT_ (CHANNEL)
                     1306
                              THEN
                                    RETURN_IF_ERROR_ (STOP_PRINTER (CHANNEL[], .DEVICE_NAME));
   364
365
                    1308
1309
                              IF PARAMETER_PRESENT_ (DEVICE_STATUS)
```

```
16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
OUTPUT
                     Print Symbiont -- output routines START_PRINTER
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [PRISMB.SRC]OUTPUT.B32;1
V04-000
                                THEN
    3667
368
369
371
372
373
374
                                     DEVICE_STATUS[] = .DEVSTATUS;
                                IF PARAMETER_PRESENT_ (DEVICE_CLASS)
                                     DEVICE_CLASS[] = .DEVCLASS;
                                IF PARAMETER_PRESENT_ (DEVICE_TYPE)
                                THEN
    375
376
377
378
379
380
381
382
383
                                     DEVICE_TYPE[] = .DEVTYPE;
                                IF PARAMETER_PRESENT_ (OUT_DEVICE_NAME)
                                     RETURN_IF_ERROR_ (STR$COPY_R (.OUT_DEVICE_NAME, DEVNAMSIZ, DEVNAMBUF));
                                SS$_NORMAL
                                END:
                                                                                                    .EXTRN SYSSALLOC, SYSSASSIGN
                                                                          0004 00000 START_PRINTER:
                                                                                                               Save R2
-132(SP), SP
                                                                                                                                                                             1214
                                                                                                     . WORD
                                                     5E
                                                                                 00002
                                                              FF7C
                                                                                                    MOVAB
                                                                       CEE22EEFE0FE0FE0C8
                                                                                                                                                                             1223
                                                                             D4
                                                                                                    CLRL
                                                                                                               CHAN
                                                                                 00009
                                                                             D4
                                                                                                    CLRL
                                                                                                               DEVSTATUS
                                                                             04
9E
00
9E
                                                                                 0000B
                                                                                                    CLRL
                                                                                                               DEVNAMSIZ
                                                                                 0000E
00012
00019
                                                                                                    MOVAB
                                                                                                               ITEM_LIST, $$ITMBLKPTR
                                                                                                                                                                             1248
                                                        00080004
                                                                                                    MOVL
                                                                                                               #720900, ($$!TMBLKPTR)+
                                                                                                               DEVDEPEND, ($$ITMBLKPTR)+
                                                                                                    MOVAB
                                                                                 0001D
                                                                                                               ($$ITMBLKPTR)+
                                                                             D4
                                                                                                    CLRL
                                                                             DO
9E
                                                                                                               #327684, ($$1TMBLKPTR)+
DEVCLASS, ($$1TMBLKPTR)+
                                                        00050004
                                                                                 0001F
                                                                                                    MOVL
                                                                                 00026
                                                                                                    MOVAB
                                                                                 0002A
0002C
00033
                                                                                                               ($$ITMBLKPTR)+
#458756, ($$ITMBLKPTR)+
DEVTYPE, ($$ITMBLKPTR)+
                                                                            D40940EE
                                                                                                    CLRL
                                                        00070004
                                                                                                    MOVL
                                                                                                    MOVAB
                                                                                                               ($$ITMBLKPTR)+
#15269952, ($$ITMBLKPTR)+
                                                                                 00037
                                                                                                    CLRL
                                                                                 00039
                                                        00E90040
08
04
                                                    80
80
80
                                                                                                    MOVL
                                                                                                    MOVAB
                                                                                                               DEVNAMBUF, ($$ITMBLKPTR)+
                                                                                 00044
                                                                                                               DEVNAMSIZ, ($$ITMBLKPTR)+
                                                                                                    MOVAB
                                                                                 00048
                                                                                                    CLRL
                                                                                                               ($$ITMBLKPTR)+
                                                                                                                                                                             1250
                                                     03
                                                                                 0004A
                                                                                                                (AP), #3
                                                                                                    BLSSU
                                                                                 0004D
                                                                                 0004F
                                                                 00
                                                                       A03CEECS0505F0E
                                                                                                               12(AP)
                                                                                 00052
                                                                                                    BEQL
                                                                                                    CLRW
                                                                                                                                                                             1252
1254
                                                                 OC
                                                                                 00054
                                                                                                               achannel
                                                                                 00057 15:
                                                                                                    CLRQ
                                                                                                               -(SP)
                                                                                 00059
                                                                                                    CLRQ
                                                                                                               -(SP)
                                                                                00058
0005E
00065
                                                                 04
                                                                             DD
                                                                                                    PUSHL
                                                                                                               DEVICE NAME
#5, SYSSALLOC
                                                                                                    CALLS
                                                                             FB
                                      00000000G
                                                                             D1
12
30
                                      00000641
                                                                                                                                                                             1255
                                                                                                               STATUS_1, #1601
                                                                                 0006C
                                                                                                    BNEQ
                                                     50
35
                                                                                 0006E
00073
                                                                                                               #2112, STATUS_1
STATUS_1, 4$
                                                                                                                                                                             1257
1258
                                                                                                    MOVZWL
                                                              0840
                                                                                                    BLBC
                                                                                 00076
                                                                                                                                                                             1262
                                                                                                    CLRQ
                                                                                                               -(SP)
```

The

PSMI

Print S	Symbiont PRINTER	••	output	routines
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VAX-11 Bliss-32 v4.0-742 [PRTSMB.SRC]OUTPUT.B32;1

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\*\*\*

000000006	00	08	AE AC G4	9F DD FB	00078 0007B 0007E	PUSHAB PUSHL CALLS	CHAN DEVICE NAME #4. SYSSASSIGN	
	00 79 03		50	E9	00085	BLBC CMPB	#4. SYSSASSIGN STATUS, 98 (AP), #3	1264
	03		60	1F	0008B	BLSSU	3\$ 12(AP)	1264
		00	AC 04	D5 13	0008D 00090	TSTL	12(AP) 3\$	
00	BC		6E	B0 70	00092	MOVW	CHAN, BCHANNEL	1266 1268
			7E	7C	00096 3\$:	CLRQ	-(SP) -(SP)	1208
		64	6E 7E 7E 7E 7E 7E 7E 7E	9F D4	0009A 0009D	PUSHAB	ITEM_LIST -(SP)	
		18	AE	DD	0009F	PUSHL	CHAN	•
000000006	00		7E	D4 FB	000A2	CALLS	-(SP) #8, SYS\$GETDVIW	•
00000000	00 6E 07		50	E9	000A4 000AB 4\$:	BLBC CMPB	STATUS, 12\$	
	07		6C 0A	91 1F	000AE 000B1	RISSII	(AP), #7	1270
		10	AC	D5	000B3	BLSSU	5\$ 28(AP)	
10	BC	50	O5 AE	13 D0	000B6 000B8	BEQL MOVL	5\$ DEVDEPEND. WOUT DEVDEPEND	1272
	BC 50	50 40	AE	DO	000BD 5\$:	MOVL	DEVDEPEND, @OUT_DEVDEPEND DEVCLASS, RO	1272 1274 1277
00000043	8F		50 22 50	D1 13	000C1 000C8	MOVL CMPL BEQL CMPL	RO, #67	
00000042	8F		50	D1 12	000CA 000D1	CMPL BNEQ	7\$ RO, #66 8\$	1282
	52	40	8F	88	000D3	BISB2	#64. DEVSTATUS	1284
10 52 05 51	52 AE AE 52		05	88 E1 E1 88	000D7 000DC	<b>980</b> <b>880</b>	#5, DEVDEPEND+2, 7\$ #5, DEVDEPEND+1, 6\$	1285
0)	52		04	88	000E1	BISB2	#4. DEVSTATUS	1287 1289
	50	0200	06 8f	11 30	000E4 000E6 6\$:	BRB MOVZWL	7\$ #716, RO	1291
	,,			04	000EB	RET		:
		50	AE 16	95 18	000EC 7\$:	TSTB	DEVDEPEND 10\$	1292
	52		01	88	000F1	BISB2	#1, DEVSTATUS	1294
		04	AC	DD	000F4 000F6 8\$:	BRB PUSHL	10\$ DEVICE NAME	1294 1274 1299
00004		04 0C	AC	DD	000F6 8\$:	PUSHL	DEVICE NAME CHANNEL	
0000v	CF 67		AC 02 50 50	DD FB E9	00101 98:	CALLS BLBC	#2, STOP PRINTER STATUS, T8\$	•
			50	D4 04	000FC 00101 9\$: 001C4 00106 00107 10\$:	BLBC	RO	1300
	03		60	91	00107 108:	RET CMPB	(AP), #3	1305
		OC	05	11	0010A 0010C	BLSSU TSTL	11\$ 12(AP)	8
			6C 05 AC 0E AC	D5 12 DD DD FB E9	0010F	BNEG	138	
		04 00	AC	DD	00111 11\$:	PUSHL	DEVICE NAME CHANNEL	1307
0000V	CF	00	AC 02 50	FB	00117	PUSHL CALLS BLBC CMPB	#2. STOP_PRINTER	:
	40		50 60	91	0011C 12\$: 0011F 13\$:	CMPB	STATUS, 185 (AP), #2	1309
	40	00	09	1F	00122	BLSSU TSTL	DEVICE NAME CHANNEC W2. STOP PRINTER STATUS, T8\$ (AP), W2 14\$	•
		08	6C 09 AC 04 52	D5 13 D0	00122 00124 00127 00129	BEOL	8(AP) 14\$	
08	BC		52	DO	00129	BEQL	DEVSTATUS, aDEVICE_STATUS	; 1311

Print Symbiont outp START_PRINTER	ut routines	E 12 16-Sep-1984 02:21:40 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:55:12 [PRTSMB.SRCJOUTPUT.B32;1	Page 14 (4)
	10	6C 91 0012D 14\$: CMPB (AP), #4 0A 1F 00130 BLSSU 15\$ AC D5 00132 TSTL 16(AP)	1313
10	BC 4C 05	AE DO 00137 MOVL DEVCLASS, aDEVICE_CLASS 6C 91 0013C 15\$: CMPB (AP), #5 0A 1F 0013F BLSSU 16\$ AC D5 00141 TSTL 20(AP)	1315 1317
14	BC 48	05 13 00144 BEQL 16\$ AE DO 00146 MOVL DEVTYPE, aDEVICE_TYPE 6C 91 0014B 16\$: CMPB (AP), #6 18 1F 0014E BLSSU 17\$ AC DS 00150 TSTU 76(AP)	1319 1321
	08 08 18	15 15 00155 BEQL 178	1323
00000000G	00 03 50	03 FB 0015E CALLS #3. STR\$COPY_R 50 E9 00165 BLBC STATUS, 18\$ 01 D0 00168 17\$: MOVL #1, R0 04 0016B 18\$: RET	1327
	10	10 BC 4C 05 14 14 BC 06 18 08 08 08 18	START_PRINTER

```
f 12
16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
0UTPUT
V04-000
                       Print Symbiont -- output routines STOP_PRINTER
                                                                                                                               VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRC]OUTPUT.832;1
                                                                                                                                                                                          (5)
                                                                                                                                                                                   Page
                                   %SBITL 'STOP_PRINTER'
! Functional Description:
                        328
329
330
331
    ?desc
                                     Formal Parameters:
                                                          ?desc
                                     Implicit Inputs:
                                                         none
                                     Implicit Outputs:
                                     Returned Value:
                                                         none
                                     Side Effects:
                                                         none
                                  ROUTINE STOP PRINTER (
                                                                     : REF SWORD.
                                              DEVICE_NAME
                                  BEGIN
                       LOCAL
                                              STATUS_1.
                                  STATUS_1 = $DASSGN (CHAN=.CHANNEL[]);
                                  CHANNEL[] = 0:
                                  STATUS_2 = $DALLOC (DEVNAM=.DEVICE_NAME);
                                  IF NOT .STATUS_1
                                  THEN
                                        RETURN .STATUS_1;
                                   .STATUS_2
                                  END:
                                                                                                                      SYS$DASSGN, SYS$DALLOC
                                                                               0004 00000 STOP_PRINTER:
                                                                                                                                                                                        1346
1357
                                                                                                           WORD
                                                                                                                      Save R2
                                                                                      00002
00006
0000D
00010
00013
00015
00018
                                                                                                                      aCHANNEL, -(SP)
#1, SYS$DASSGN
RO, STATUS_1
aCHANNEL
                                                                                  3C
FB
DO
                                                                                                           MOVZWL
                                                        7E
00
52
                                                                            BC 150 BC 7E 022
                                        0000000G
                                                                                                          CALLS
                                                                                                          MOVL
                                                                                  B44DBBB
                                                                                                                                                                                        1359
1361
                                                                     04
                                                                                                          CLRW
                                                                                                          CLRL
                                                                                                                      -(SP)
                                                                                                          PUSHL
CALLS
BLBS
                                                                                                                      DÉVICE NAME
#2. SYSSDALLOC
STATUS_1, 1$
                                                                     08
                                        00000000G
```

SEP VO4

1363

0UTPUT V04-000 Print Symbiont -- output routines STOP\_PRINTER

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VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRC]OUTPUT.B32;1

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50

52 DO 00022 04 00025 1\$:

MOVL

STATUS\_1, RO

: 136

; Routine Size: 38 bytes, Routine Base: CODE + 031A

SEP VO4

```
H 12
16-Sep-1984 02:21:40
14-Sep-1984 12:55:12
                    Print Symbiont -- output routines WRITE_AST
0UTPUT
V04-000
                                                                                                                VAX-11 Bliss-32 V4.0-742
[PRISMB.SRC]OUTPUT.B32:1
                                                                                                                                                                     (6)
                                                                                                                                                               Page
                               *SBTTL 'WRITE_AST' ! Functional Description:
                     ?desc
                                 Formal Parameters:
                                                   ?desc
                                 Implicit Inputs:
                                                   none
                                 Implicit Outputs:
                                                   none
                                 Returned Value:
                                                   none
                                 Side Effects:
                                                   none
                              ROUTINE WRITE_AST (
                                                   : REF $BBLOCK
: NOVALUE =
                                         IOB
                              BEGIN
                              LOCAL
                                        FUNCTION_STATUS
                              FUNCTION_STATUS = .108[108_W_10_STATUS];
                              PSM$REPORT (IOB, FUNCTION_STATUS);
                    1400
                              END:
                                                                      0000 00000 WRITE_AST:
                                                                                                         Save nothing
                                                                                               . WORD
                                                                                                                                                                    1388
1397
                                                                         00
30
9F
                                                  50
7E
                                                             04
                                                                                              MOVZWL
                                                                                                         IOB, RO
12(RO), FUNCTION_STATUS
                                                                    AC
AO
SE
AC
O2
                                                                             00006
                                                                                                                                                                   1399
                                                                             0000A
                                                                                               PUSHL
                                                                            0000C
0000F
00016
                                                                                                         IOB #2. PSM$REPORT
                                                                                               PUSHAB
                                                                         FB 04
                                                                                              CALLS
                                    00000000G
                                                                                                                                                                   1401
; Routine Size: 23 bytes.
                                      Routine Base: CODE + 0340
```

SEI

I 12 16-Sep-1984 02:21:40 14-Sep-1984 12:55:12 SEI Print Symbiont -- output routines WRITE\_AST VAX-11 Bliss-32 V4.0-742 [PRTSMB.SRC]OUTPUT.B32;1 (7) Page PSECT SUMMARY Attributes Bytes 855 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN (2) Library Statistics ----- Symbols -----Processing Pages Total Loaded Percent Mapped Time 18619 76 1000 00:01.8 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:OUTPUT/OBJ=OBJ\$:OUTPUT MSRC\$:OUTPUT/UPDATE=(ENH\$:OUTPUT) Size: 855 code + 0 data bytes
Run Time: 00:26.6
Elapsed Time: 00:58.1
Lines/CPU Min: 3170
Lexemes/CPU-Min: 32415
Memory Used: 284 pages
Compilation Complete

**OUTPUT V04-000** 

461

CODE

Name

File

\_\$255\$DUA28:[SYSLIB]LIB.L32:1

1402 1 END 1403 0 ELUDOM

0310 AH-BT13A-SE

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